ELSEVIER

Journal of Electroanalytical Chemistry 466 (1999) 243

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Author Index of Volume 466

Aurbach, D., 203

Bakir, M., 60
Barber, J., 124
Bartlett, P.N., 15
Bento, E.S., 99
Bontá, M., 90
Boodts, J.F.C., 99
Braybrook, G.D., 234

Caix-Cecillon, C., 187
Cavalcanti, J.C.M., 99
Chambers, J.Q., 2
Chardon-Noblat, S., 187
Chen, C.F., 82
Chen, H.-Y., 26
Ciszkowska, M., 129
Conway, B.E., 124
Creager, S.E., 197
Cuesta, A., 165

de Azevedo, D.C., 99
Deronzier, A., 187
Diard, J.-P., 122
dos Santos, A.F., 99
Dražić, D.M., 155
Duah-Williams, L., 177

Erk, M., 75
Esteso, M.A., 38

Fernández-Mérida, L., 38
Finot, M.O., 234

Galceran, J., 15
García-García, G.E., 38
Goulart, M.O.F., 99
Granger, M.M., 144

Haukka, M., 187
Hawkridge, F.M., 177
Hinoue, T., 31
Hu, X.-Y., 26

John, S.A., 67
Johnston, R.F., 2

Kibler, L.A., 165
Klunker, J., 107
Kolb, D.M., 165
Kuramitz, H., 117
Kuwamoto, N., 31

Le Gorrec, B., 122
Lev, O., 45
Lewis, D.M., 2
Lopez, C., 218
Lović, J.D., 155
Lu, Z., 203

McDermott, M.T., 234
Molina, A., 8
Montella, C., 122
Moshkovich, M., 203

Nakamura, H., 117
Núñez-Vergara, L.J., 90

O'Connor, S.D., 197
Ohsaka, T., 67
Okajima, T., 67
Olsen, G.T., 197

Pakkanen, T.A., 187
Popov, B.N., 169
Popović, K.D., 155

Rabinovich, L., 45
Raoult, E., 144
Raposo, R.R., 38
Raspor, B., 75
Rault-Berthelot, J., 144
Rozé, C., 144

Santana, A.E.G., 99
Schäfer, W., 107
Schechter, A., 203
Serna, C., 8
Squella, J.A., 90
Stojek, Z., 129
Sturm, J.C., 90
Sugawara, K., 117

Tanaka, S., 117
Taylor, S.L., 15
Tonholo, J., 99
Tripković, A.V., 155
Tsirlina, G.A., 45

Vieil, E., 218

Wang, C.M., 82
Watanabe, I., 31
Weiss-Lopez, B., 90
White, R.E., 169

Xiao, Y., 26
Xie, Y., 169

Ziessel, R., 187
Zsoldos, D., 187

PII: S0022-0728(99)00203-X

ELSEVIER

Journal of Electroanalytical Chemistry 466 (1999) 245–248

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Subject Index of Volume 466

Absence of supporting electrolyte
Voltammetry in solutions of low ionic strength. Electrochemical and analytical aspects, 129
Acetonitrile
Anodic behavior of copper in acetonitrile: the influence of carbon dioxide and dimethylamine, 107
Activated olefin
Self-protonation mechanism in the electrochemical reduction of Jatropholone, 99
Activity coefficients
Activity coefficients for aminoacid + electrolyte mixtures by using Pitzer equations: DL-α-amino-*n*-butyric acid in mixed electrolyte solutions of neutral, acid and alkaline pH values, 38
Ac voltammetry
A Nernstian electron source model for the ac voltammetric response of a reversible surface redox reaction using large-amplitude ac voltages, 197
Alkaline solution
Kinetic and mechanistic study of hydroxyl ion electrosorption at the Pt(111) surface in alkaline media, 155
Amalgamation
General solutions for the I/t response for reversible processes in the presence of product in a multipotential step experiment at planar and spherical electrodes whose areas increase with any power of time, 8
Anodic behavior
Anodic behavior of copper in acetonitrile: the influence of carbon dioxide and dimethylamine, 107
Aromatic ketone
Self-protonation mechanism in the electrochemical reduction of Jatropholone, 99
Ascorbic acid
Voltammetry using an electrode surface continuously renewed by laser ablation and its demonstration on electro-oxidation of L-ascorbic acid, 31
Asymmetric viologen
A monomer–dimer equilibrium in self-assembled monolayers of *N*-ethyl-*N*′-octadecylviologen on the electrode surface. The influence of water content and hexafluorophosphate ion, 67

Bandgap
Anodic oxidation of various arylene-cyanovinylenes made of alternating fluorenyl, thienyl and/or phenyl units, 144
Boundary condition
Discussion of the paper by Barber et al. [J. Electroanal. Chem. 446 (1998) 125], 122

Cadmium binding
Electrochemical study on Cd binding to metallothioneins isolated from the mussel, *Mytilus galloprovincialis*, 75
Carbon dioxide
Anodic behavior of copper in acetonitrile: the influence of carbon dioxide and dimethylamine, 107
Chronoamperometry
Application of Danckwerts' expression to first-order EC′ reactions. Transient currents at inlaid and recessed microdisc electrodes, 15
Colloidal gold
Adsorption characteristics of $Fe(CN)_6^{3-/4-}$ on Au colloids as monolayer films on cysteamine-modified gold electrode, 26
Convolution
Quantitative discrimination of mass fluxes at electrochemical interfaces by optical beam deflection, 218
Copper
Anodic behavior of copper in acetonitrile: the influence of carbon dioxide and dimethylamine, 107
Cyanide dissociation
The temperature dependence of the kinetics of cyanide dissociation from the cyanide complex of myoglobin studied by cyclic voltammetry, 177
Cyclic voltammetry
Electrochemical study of β-nitrostyrene derivatives: steric and electronic effects on their electroreduction, 90
The temperature dependence of the kinetics of cyanide dissociation from the cyanide complex of myoglobin studied by cyclic voltammetry, 177

Dimethylamine
Anodic behavior of copper in acetonitrile: the influence of carbon dioxide and dimethylamine, 107
Discrimination
Quantitative discrimination of mass fluxes at electrochemical interfaces by optical beam deflection, 218
DL-α-amino-*n*-butyric acid
Activity coefficients for aminoacid + electrolyte mixtures by using Pitzer equations: DL-α-amino-*n*-butyric acid in mixed electrolyte solutions of neutral, acid and alkaline pH values, 38
DME
General solutions for the I/t response for reversible processes in the presence of product in a multipotential step experiment at planar and spherical electrodes whose areas increase with any power of time, 8
Dopamine
Control of electrocatalytic oxidation of NADH using an interaction between labeled biotin with dopamine and avidin, 117

EC′ mechanism
Application of Danckwerts' expression to first-order EC′ reactions. Transient currents at inlaid and recessed microdisc electrodes, 15
EIS
Discussion of the paper by Barber et al. [J. Electroanal. Chem. 446 (1998) 125], 122
Electroactive polymer
Anodic oxidation of various arylene-cyanovinylenes made of alternating fluorenyl, thienyl and/or phenyl units, 144

PII: S0022-0728(99)00204-1

Electrocatalysis
A novel electrochemical method for the detection of nerve gases, 169
Electrocatalysts
Control of electrocatalytic oxidation of NADH using an interaction between labeled biotin with dopamine and avidin, 117
Electrochemical properties
Electrochemical properties of the first Re(I)–carbonyl compound of di-2-pyridyl ketone.oxime (dpk.oxime), *fac*-$Re(CO)_3$(dpk.oxime)Cl, in non-aqueous media, 60
Electrochemical sensor
A novel electrochemical method for the detection of nerve gases, 169
Electrochemistry
A monomer–dimer equilibrium in self-assembled monolayers of *N*-ethyl-*N*′-octadecylviologen on the electrode surface. The influence of water content and hexafluorophosphate ion, 67
Electropolymerization
Anodic oxidation of various arylene-cyanovinylenes made of alternating fluorenyl, thienyl and/or phenyl units 144
Electrochemical formation and spectroelectrochemical characterization of organometallic $[Ru(L)(CO)_2]_n$ polymers; L = disubstituted-2,2′-bipyridine, 187
Electroreduction
Electrochemical study of β-nitrostyrene derivatives: steric and electronic effects on their electroreduction, 90
Self-protonation mechanism in the electrochemical reduction of Jatropholone, 99
EQCM
A monomer–dimer equilibrium in self-assembled monolayers of *N*-ethyl-*N*′-octadecylviologen on the electrode surface. The influence of water content and hexafluorophosphate ion, 67
Exchange current density
Kinetic and mechanistic study of hydroxyl ion electrosorption at the Pt(111) surface in alkaline media, 155

Frumkin isotherm
Kinetic and mechanistic study of hydroxyl ion electrosorption at the Pt(111) surface in alkaline media, 155

Gas electrodes
Electrochemical characterisation of Pd modified ceramic | carbon electrodes: partially flooded versus wetted channel hydrophobic gas electrodes, 45
Glassy carbon
Characterization of electrochemically deposited gold nanocrystals on glassy carbon electrodes, 234
Glucose detection
Ruthenium purple-containing zeolite modified electrodes and their application for the detection of glucose, 82
Gold electrode
Adsorption characteristics of $Fe(CN)_6^{3-/4-}$ on Au colloids as monolayer films on cysteamine-modified gold electrode, 26
Gold nanocrystals
Characterization of electrochemically deposited gold nanocrystals on glassy carbon electrodes, 234

Homogeneous reaction
Application of Danckwerts' expression to first-order EC′ reactions. Transient currents at inlaid and recessed microdisc electrodes, 15

Ionic content
Quantitative discrimination of mass fluxes at electrochemical interfaces by optical beam deflection, 218
Isoforms
Electrochemical study on Cd binding to metallothioneins isolated from the mussel, *Mytilus galloprovincialis*, 75

Kinetics
The temperature dependence of the kinetics of cyanide dissociation from the cyanide complex of myoglobin studied by cyclic voltammetry, 177

Labeled biotin
Control of electrocatalytic oxidation of NADH using an interaction between labeled biotin with dopamine and avidin, 117
Laser ablation
Voltammetry using an electrode surface continuously renewed by laser ablation and its demonstration on electro-oxidation of L-ascorbic acid, 31
Ligand
Electrochemical properties of the first Re(I)–carbonyl compound of di-2-pyridyl ketone.oxime (dpk.oxime), *fac*-$Re(CO)_3$(dpk.oxime)Cl, in non-aqueous media, 60
Linear Tafel approximation region
Kinetic and mechanistic study of hydroxyl ion electrosorption at the Pt(111) surface in alkaline media, 155
Low support ratio
Voltammetry in solutions of low ionic strength. Electrochemical and analytical aspects, 129

Magnesium
On the electrochemical behavior of magnesium electrodes in polar aprotic electrolyte solutions, 203
Mercury(II) electrode
Accumulation of Hg(II) by adsorbed polyuridylic acid: differentiation of coordinated Hg(II) and covalently mercurated species, 2
Metallothioneins
Electrochemical study on Cd binding to metallothioneins isolated from the mussel, *Mytilus galloprovincialis*, 75
Microdisc
Application of Danckwerts' expression to first-order EC′ reactions. Transient currents at inlaid and recessed microdisc electrodes, 15
Microelectrodes
General solutions for the I/t response for reversible processes in the presence of product in a multipotential step experiment at planar and spherical electrodes whose areas increase with any power of time, 8
Voltammetry in solutions of low ionic strength. Electrochemical and analytical aspects, 129
Migration
Voltammetry in solutions of low ionic strength. Electrochemical and analytical aspects, 129
Mirage
Quantitative discrimination of mass fluxes at electrochemical interfaces by optical beam deflection, 218
Mixed electrolyte solutions
Activity coefficients for aminoacid + electrolyte mixtures by using Pitzer equations: DL-α-amino-*n*-butyric acid in mixed electrolyte solutions of neutral, acid and alkaline pH values, 38
Modeling
Quantitative discrimination of mass fluxes at electrochemical interfaces by optical beam deflection, 218
Monolayer
A monomer–dimer equilibrium in self-assembled monolayers of *N*-ethyl-*N*′-octadecylviologen on the electrode surface. The influence of water content and hexafluorophosphate ion, 67

Monomer–dimer
A monomer–dimer equilibrium in self-assembled monolayers of *N*-ethyl-*N'*-octadecylviologen on the electrode surface. The influence of water content and hexafluorophosphate ion, 67
Multipulse
General solutions for the I/t response for reversible processes in the presence of product in a multipotential step experiment at planar and spherical electrodes whose areas increase with any power of time, 8
Mytilus galloprovincialis
Electrochemical study on Cd binding to metallothioneins isolated from the mussel, *Mytilus galloprovincialis*, 75

NADH
Control of electrocatalytic oxidation of NADH using an interaction between labeled biotin with dopamine and avidin, 117
Nernstian distribution
A Nernstian electron source model for the ac voltammetric response of a reversible surface redox reaction using large-amplitude ac voltages, 197
Nerve gases
A novel electrochemical method for the detection of nerve gases, 169
β-Nitrostyrene derivatives
Electrochemical study of β-nitrostyrene derivatives: steric and electronic effects on their electroreduction, 90
Nonaqueous solutions
On the electrochemical behavior of magnesium electrodes in polar aprotic electrolyte solutions, 203

Organometallic polymers
Electrochemical formation and spectroelectrochemical characterization of organometallic $[Ru(L)(CO)_2]_n$ polymers; L = disubstituted-2,2′-bipyridine, 187
Oxygen reduction
Electrochemical characterisation of Pd modified ceramic | carbon electrodes: partially flooded versus wetted channel hydrophobic gas electrodes, 45

Palladium
Electrochemical characterisation of Pd modified ceramic | carbon electrodes: partially flooded versus wetted channel hydrophobic gas electrodes, 45
p- and n-doping processes
Anodic oxidation of various arylene-cyanovinylenes made of alternating fluorenyl, thienyl and/or phenyl units, 144
Passivation
On the electrochemical behavior of magnesium electrodes in polar aprotic electrolyte solutions, 203
Pd(*hkl*) electrodes
A method to prepare single crystal electrodes of reactive metals: application to Pd(*hkl*), 165
Pitting corrosion
Anodic behavior of copper in acetonitrile: the influence of carbon dioxide and dimethylamine, 107
Polyuridylic acid
Accumulation of Hg(II) by adsorbed polyuridylic acid: differentiation of coordinated Hg(II) and covalently mercurated species, 2
Presence of product
General solutions for the I/t response for reversible processes in the presence of product in a multipotential step experiment at planar and spherical electrodes whose areas increase with any power of time, 8
Probe beam deflection
Quantitative discrimination of mass fluxes at electrochemical interfaces by optical beam deflection, 218

Pt(111) surface
Kinetic and mechanistic study of hydroxyl ion electrosorption at the Pt(111) surface in alkaline media, 155

Quasi-equilibrium conditions
Kinetic and mechanistic study of hydroxyl ion electrosorption at the Pt(111) surface in alkaline media, 155

Reaction/diffusion
Application of Danckwerts' expression to first-order EC′ reactions. Transient currents at inlaid and recessed microdisc electrodes, 15
Reaction rate
Discussion of the paper by Barber et al. [J. Electroanal. Chem. 446 (1998) 125], 122
Reactive metals
A method to prepare single crystal electrodes of reactive metals: application to Pd(*hkl*), 165
Regioselectivity
Self-protonation mechanism in the electrochemical reduction of Jatropholone, 99
Reversible process
General solutions for the I/t response for reversible processes in the presence of product in a multipotential step experiment at planar and spherical electrodes whose areas increase with any power of time, 8
Rhenium–carbonyl compound
Electrochemical properties of the first Re(I)–carbonyl compound of di-2-pyridyl ketone.oxime (dpk.oxime), *fac*-$Re(CO)_3$(dpk.oxime)Cl, in non-aqueous media, 60
Ruthenium complexes
Electrochemical formation and spectroelectrochemical characterization of organometallic $[Ru(L)(CO)_2]_n$ polymers; L = disubstituted-2,2′-bipyridine, 187
Ruthenium purple
Ruthenium purple-containing zeolite modified electrodes and their application for the detection of glucose, 82

SAM
A Nernstian electron source model for the ac voltammetric response of a reversible surface redox reaction using large-amplitude ac voltages, 197
Self-assembled monolayers
Adsorption characteristics of $Fe(CN)_6^{3-/4-}$ on Au colloids as monolayer films on cysteamine-modified gold electrode, 26
Self-protonation
Self-protonation mechanism in the electrochemical reduction of Jatropholone, 99
SEM
Characterization of electrochemically deposited gold nanocrystals on glassy carbon electrodes, 234
Single crystal electrodes
A method to prepare single crystal electrodes of reactive metals: application to Pd(*hkl*), 165
SMDE
General solutions for the I/t response for reversible processes in the presence of product in a multipotential step experiment at planar and spherical electrodes whose areas increase with any power of time, 8
Sol–gel
Electrochemical characterisation of Pd modified ceramic | carbon electrodes: partially flooded versus wetted channel hydrophobic gas electrodes, 45
Substituted bipyridine.
Electrochemical formation and spectroelectrochemical characterization of organometallic $[Ru(L)(CO)_2]_n$ polymers; L = disubstituted-2,2′-bipyridine, 187

Surface area determination
Characterization of electrochemically deposited gold nanocrystals on glassy carbon electrodes, 234
Surface chemistry
On the electrochemical behavior of magnesium electrodes in polar aprotic electrolyte solutions, 203
Surface electrochemistry
A Nernstian electron source model for the ac voltammetric response of a reversible surface redox reaction using large-amplitude ac voltages, 197

Temperature dependence
The temperature dependence of the kinetics of cyanide dissociation from the cyanide complex of myoglobin studied by cyclic voltammetry, 177
Transference numbers
Quantitative discrimination of mass fluxes at electrochemical interfaces by optical beam deflection, 218

Upd lead
Characterization of electrochemically deposited gold nanocrystals on glassy carbon electrodes, 234

Voltammetry
Accumulation of Hg(II) by adsorbed polyuridylic acid: differentiation of coordinated Hg(II) and covalently mercurated species, 2
Electrochemical study on Cd binding to metallothioneins isolated from the mussel, *Mytilus galloprovincialis*, 75
Voltammetry in solutions of low ionic strength. Electrochemical and analytical aspects, 129
Voltammetry using an electrode surface continuously renewed by laser ablation and its demonstration on electro-oxidation of L-ascorbic acid, 31

Zeolite electrodes
Ruthenium purple-containing zeolite modified electrodes and their application for the detection of glucose, 82